FAA-STD-003 June 11, 1965

FEDERAL AVIATION AGENCY STANDARD

PAINT SYSTEMS FOR STRUCTURES



FOREWORD

The life-expectancy, appearance and maintenance cost of Federal Aviation Agency structures are directly affected by the quality of their protective finish against the deleterious effect of the natural environments.

Scientists' struggle to improve the quality of protective finishes is a continuing one, substantially rewarded by considerable progress. This progress demonstrates the need for keeping our design and development elements abreast of these improvements.

This standard meets this need by providing engineering guidance consistent with the state-of-the-art in the paint systems field. This standard will be properly maintained on a current basis to provide an effective engineering tool for keeping the Agency abreast of future improvements.

TABLE OF CONTENTS Page 1 CHAPTER 2. PURPOSE CHAPTER 3. DEFINITIONS 2 CHAPTER 5. CLEANING AND PREPARATION OF SURFACES . . . 6 12 14 16

CHAPTER 1. SCOPE

1.1 Scope. This standard establishes the requirements of the Federal Aviation Agency (FAA) for the painting of buildings, towers, antennas, substations and other ancillary structures.

CHAPTER 2. PURPOSE

2.1 Purpose. The purpose of this standard is to properly implement a uniform paint system at all design, development and contractor levels to insure realization of the improvements on a universal basis.

CHAPTER 3. DEFINITIONS

3.1 Definitions. The term "paint", as used herein, includes paints, enamels, stains, varnishes, sealers and other coatings, whether used as primers, intermediates, or finish coats. Paints to be used are for protective and decorative effect on surfaces. Detailed definitions concerning general terminology as used in the paint industry are referenced in Fed. Std. No. 141, Section 8.

CHAPTER 4. MATERIALS

- cake or thicken adversely in the container; shall be readily dispersed with a paddle to a smooth, uniform consistency and shall have good brushing and coverage characteristics. Paints shall be delivered in sealed containers that plainly show the designated brand name, formula or specification number, batch number, color, date of manufacture, manufacturer's directions, and name of manufacturer, all of which shall be plainly legible at the time of use. Materials shall conform to the specifications shown in the painting schedule herein and to the requirements hereinafter specified. A "Supplier's Record of Batch Production Data and Test Results" shall be furnished for each batch in accordance with Federal Standard No. 141, Method 1031.2, except that batch production data may be limited to calculated lot composition, and test results may be limited to those of the following properties for which there are requirements in the material specification:
 - (a) Weight per gallon
 - (b) Viscosity
 - (c) Fineness of grind
 - (d) Drying time
 - (e) Color
 - (f) Gloss

Colors and tints shall conform with the designated colors, as shown in Federal Standard No. 595, or as specified in the invitation for bid. When the required quantity of a particular paint is 10 gallons or less, a proprietary brand of material similar to that specified may be used and the manufacturer's technical data required for paint furnished in larger quantities is not required.

- 4.2 Table I.- This table lists various types of paints that should be used on structures. The first column is a list of materials by name; the second column is a list of the corresponding Federal or Military Specifications used for procurement of the specific type of paint; the third column further identifies the materials as to their intended use, application or other pertinent information.
- 4.3 Referenced publications. For a list of material specifications and other publications, see Table VI, pages 25 and 26.

TABLE I

<u>Material</u>	Specification	Remarks
Aluminum Paint	TT-P-38	Ready-mixed
Aluminum Paint	TT-P-320, Type II, Class B.	Field-mixed: Two pounds of paste, one pint of thinner (such as TT-T-801) max. 1 gallon of varnish.
	TT-V-119 Varnish TT-T-801 Turpentine	Varnish TT-V-119. Mixed to make the required aluminum paint.
Styrene Acrylic Fill Coat Solvent Type	TT-P-0097 Table DX	Acrylic exterior emulsion paint (TT-P-19) or exterior styrene-acrylate-solvent paint (TT-P-0097) should be applied over the fill coat.
Paint, Cementiticus Powder, White and Colors	, TT-P-0035	Apply over fill coat or direct on masonry. (For interior and exterior use.)
Exterior Emulsion Paint Polyvinyl Acetate Acrylic	TT-P-55, Type II TT-P-19	Only one type emulsion resin shall be used in an exterior emulsion system.
Exterior Oil Paint	TT-P-25 TT-P-31 TT-P-53 TT-P-59 TT-P-61 TT-P-71 TT-P-81 TT-P-102, Class A TT-P-102, Class B TT-P-103 MIL-P-52324, Class B	Under-coater-Primer-White & Tints Red and Brown Medium Chrome Yellow International Orange Black Chrome Green Lead-Zinc Medium Shades White only (Titanium-Lead-Zinc) Light Tints only (Titanium-Lead-Zinc) White & Tints. On areas exposed to hydrogen sulfide and similar fumes, and areas exposed to livestock (lead-free). White only) on exterior wood Tints only) surfaces where

TABLE I

Material	Specification	Remarks
Interior Emulsion	TT-P-29, Type I	Also suitable for gypsum board sealer.
Vinyl-Type Wash Coat	MIL-P-15528 or MIL-1-14504	Special surface preparation necessary.
Zinc Dust Containing Paint	TT-P-641 or MIL-I-26915	For application as galvanized iron primer.
Exterior Stain Finish	TT-S-708	Oil stain for wood. Color as specified.
Floor Wax	P-W-155 or- P-W-158	
Joint Cement		As recommended by gypsum wall- board manufacturer.
Reinforcement Tape		As recommended by gypsum wall- board manufacturer.
Anti-mildew Additive		As recommended by paint manu- facturer based on prior mildew formation in area.
Fire-retardant Pai Interior Exterior	nts MIL-C-46081	For application to combustible surfaces and surfaces requiring heat protection from fire.
Liquid Glazes	TT-C-00550	Base material either a poly- ester or epoxy resin as re- quired for the particular sur- face.
Vinyl Type Primer Paints	MIL-P-15929 or MIL-P-15930	Requires extra surface cleanliness.

TABLE I

Material	Specification	Remarks
Vinyl Alkyd Type Paints	MIL-P-15932 MIL-P-15933 MIL-P-15934 MIL-P-15935 MIL-P-16188 MIL-P-16501 MIL-P-16502 MIL-P-16738	Only difference in specifications is color. All paints shall conform to formula 122 of the applicable MIL spec.
Non-Slip Coating Compound	MIL-W-5044, Type II	Rough textured for brush application.
Cement Emulsion Paint Filler *	Specification in process of preparation.	
White Portland Cement Aggregate	SS-C-192, Type I or II	Washed silics 0.5% colloidal clay max. 100% shall pass No. 20 sieve. 25-40% retained No. 70 sieve. 100% retained No. 100 sieve.
Acrylic Mixing Liquid		Acrylic emulsion polymer 46-50% solids. Latex emulsion vehicle identical to exterior acrylic paint emulsion (TT-P-19).
Polyvinyl Acetate Mixing Liquid		Polyvinyl acetate emulsion polymer 50-55% solids, identical with exterior polyvinyl paint resin emulsion (TT-P-55, Type II).
White Portland Cem Aggregate Mixing Liquid (as Water Emulsion Paint	33.5 "	Polyvinyl Acetate Fill Coat 16.5 pounds 33.5 " 0.75 gallons 1.00 "

Mixing Instructions: Dry mix cement and aggregate. Add mixing liquid and 1/2 total amount of water gradually with constant mixing until a thick, smooth paste is obtained. Then add emulsion paint and mix thoroughly. Paste should be creamy. The remainder of water may be added to obtain product of proper application consistency. Do not agitate excessively as this entraps air, causing feaming. If this occurs, allow mix to set until free of air and feam.

CHAPTER 5. CLEANING AND PREPARATION OF SURFACES

5.1 General .- All hardware, hardware accessories, machined surfaces, plates, lighting fixtures and similar items in place and not intended to be painted shall be removed, masked or otherwise protected prior to surface preparation and painting. Radiators and other items shall be removed to permit the complete painting of the radiator and adjacent surfaces. Following completion of painting of each space, removed items shall be reinstalled. Such removal and reinstalling shall be done by workmen skilled in the trades involved. Exposed nails and other ferrous metal on surfaces to be painted with waterthinned paints shall be spot-primed with zinc dust, red lead, basic lead silico-chromate or zinc chromate primer. Surfaces to be painted shall be clear before applying the paint or surface treatment. Oil and grease shall be removed with clean cloths and cleaning solvent prior to mechanical cleaning, except when sandblasting is employed. Shop-coated, galvanized, or similar type metal shall be protected from corrosion before and after installation by treating corroded areas immediately upon detection. Rust spots and spots where shop coat has been abraded, shall be sanded to bright metal and recoated with primer. Cleaning and painting shall be so programmed that dust and other contaminants from the cleaning process will not fall on wet, newly-painted surfaces. Painting shall not proceed until all imperfections, cracks and holes in surfaces to be painted are repaired in an approved manner. Any painted surface marred or otherwise damaged shall be cleaned, repaired and repainted. Where it is desired to change from one paint system to another, certain precautions should be exercised. For example, previously painted surfaces subject to chalking requires one coat of TT-P-25 exterior primer before application of a latex exterior paint to insure proper adhesion.

5.2 Concrete surfaces. - Concrete surfaces to be painted shall be adequately cured and prepared by removing all efflorescence, chalk, dust, dirt, grease, oil, tar, and old weathered paint, and by roughening to remove glaze, Surface deposits of free iron rust shall be removed prior to painting. All surface voids, pores, and cracks shall be completely filled with grouting compound. The dry film shall be uniform and free from pinholes or other voids. Exterior concrete surfaces when painted shall be done so as to achieve waterproofness when exposed to wind-driven rains. (When it is desired to make above-ground concrete surfaces water-repellent without changing the appearance of the surface, a coat of transparent, colorless silicone water-repellent in accordance with SS-W-110 should be specified. This material imparts water-repellency to the surface so treated).

Note 1.- The sentences in parentheses shall be deleted when waterproofing is desired, as in concrete masonry units.

Note 2.- Water-repellency should not be confused with waterproofness. Water-repellency and waterproofness are not synonymous. Water-repellency is defined as that property of the treated surface which repels water by run-off, but does not provide imperviousness to wind-driven water. Waterproofness is impervious to all types of water penetration.

5.3 Wood surfaces (Lumber and Plywood)

- 5.3.1 General Wood surfaces except surfaces to be given natural finish shall be primed and finish-coated as specified in the painting systems herein. Wood surfaces to be painted shall be cleaned of dirt, oil, and other foreign substances with mineral spirits. Existing paint which shows signs of deterioration, loosening or chalking shall be removed. Finished surfaces exposed to view shall be made smooth by sandpapering. Exterior wood items to be painted and in contact with or built into concrete masonry or plaster shall be preservative-treated in conformance with the minimum standards of the National Woodwork Manufacturer's Association reference manual. Glazing rabbits and heads in exterior sash and doors shall be primed prior to glazing. Areas where resin has exuded from the wood shall be scraped clean and sanded prior to application of knot sealer. Recesses, cracks, joints, crevices, and nail holes in the wood shall be filled with glazing putty or plastic wood compound and sanded flush with the wood. Cracked and broken putty around window panes shall be removed and replaced with new putty. Small, dry, seasoned knots shall be surface scraped and thoroughly cleaned, and shall be given a thin coat of knot sealer conforming to Military Specification MIL-S-12935 before application of the priming coat. Wood treated with creosote or other preservatives in a non-volatile solvent such as fuel oil is unsuitable for painting. Wood treated with water-borne preservatives and thoroughly redried may be painted; however, such treatment does not provide water-repellency which will prevent storm water from penetrating joints in the structure. Unless otherwise authorized, painting shall proceed only when the moisture content of the wood does not exceed 12 percent as measured by a moisture meter. Painting of exterior wood or hardboard siding shall proceed, insofar as practical, only after interior plaster and masonry work have dried.
 - 5.3.2 Exterior wood surfaces to receive natural finish.— Exterior wood surfaces to receive natural finish shall be given a single coat of finish conforming to Federal Specification TT-S-708. On smooth surfaces such as planed face of bevel siding, the finish shall be applied at a spreading rate of 400 to 500 square feet per gallon. On rough surfaces such as unplaned or scarred face of bevel siding, the finish shall be spread at the rate of 200 to 250 square feet per gallon. To avoid brush marks, the coating shall be finished off by brushing with the grain of the wood for the full length of the lap of siding being painted without stopping for more than five minutes. The finish shall also be stirred frequently during application to maintain uniform suspension of the pigments.
 - 5.3.3 Interior wood surfaces.— Interior wood surfaces to receive stained or natural finish, except as hereinafter specified, shall be properly prepared to the approved shade and lightly sanded. Oak and other open-grain wood shall be given the same treatment and, in addition, shall be given a coat of paste wood filler not less than 8 hours after the application of stain. Excess filler shall be removed and the surface then sanded smooth. Each varnish coat shall be lightly sanded prior to application of subsequent coat.
 - 5.3.4 Interior wood floors. Interior wood floors shall be sanded as necessary. Oak or similar open-grain wood shall be filled with wood filler, and excess filler removed.

- 5.4 Ferrous surfaces .- Ferrous surfaces, interior and exterior, that have not been shop-coated shall be solvent-cleaned to remove oil and grease, then mechanically cleaned by power wire-brushing or blast cleaning to remove loose rust, loose mill-scale and other foreign substances. Blast cleaning shall conform to Steel Structures Painting Council Specification SSPC-SP-6 for commercial sandblasting (Figure B SA 1 of SSPC-VIS-I-63T, Pictorial Surface Preparation Standards for Painting Steel Structures). Power tool cleaning shall conform to Steel Structures Painting Council Specification SSPC-SP-3. Cleaning shall be scheduled to permit priming of the cleaned areas before the formation of any corrosion. In the event the cleaned surfaces are left unprimed until the formation of corrosion, the affected areas shall be cleaned again. Minor amounts of residual rust that cannot be removed except by thorough blast-cleaning, and tight mill-scale that cannot be removed by applying a sharp knife to any edge, will be permitted. After cleaning, one coat of paint conforming to Federal Specification TT-P-86, Type I or Type II, TT-P-615, Type I or Type II, or TT-P-645 shall be applied to a minimum dry film thickness of 1 mil. Shop-coated metal shall be protected from corrosion before and after installation by treating corroded areas immediately upon detection. Rust spots and spots where shop cout has been abraded, shall be sanded to bright metal and recoated with a primer.
 - 5.4.1 Fabricated and Assembled Items. Fabricated and assembled items which are normally cleaned and primed in accordance with the manufacturer's standard practice may be exempted from the requirements for surface preparation and first coat specified in Chapter 9 or on the drawings upon specific request by the contractor and approval by the contracting Officer. Similarly, items which are normally painted with a complete coating system in accordance with the manufacturer's standard practice may be exempted entirely from the surface preparation and painting requirements herein, provided the finish coat is of acceptable color and quality and is touched up as necessary in the field. Requests for exemption shall be accompanied by a description of the manufacturer's standard coating, including surface preparation, type of paint, dry film thickness and whether baked or air-dried.
 - Solution metal surfaces.— All nonferrous metal surfaces, such as aluminum alloy (except anodized), copper, zinc-copper-alloy, and zinc-coated surfaces, including nonferrous surfaces not to be painted, shall be solvent-cleaned as necessary to remove all oil, grease or other foreign substances. After cleaning, all nonferrous surfaces to be painted shall be treated with vinyl type wash coat as hereinafter specified. Painting to protect aluminum from contact with dissimilar materials should be specified under the section of the specification covering the specific item. All zinc-coated metal shall be protected from corrosion before and after installation by treating cut, scarred, corroded, or abraded spots immediately upon detection; such spots shall be thoroughly wire-brushed, cleaned and smoothed, treated with vinyl wash coat or primed with zinc dust or zinc dust-zinc oxide metal primer, and then painted when necessary with a finish color coating which will match the color of adjoining surface. Exterior galvanized and zinc-copper-alloy surfaces, exterior copper surface and exterior aluminum-alloy surfaces will be

painted only when corrosion conditions are such as to warrant a protective coating system or when the unpainted substrate will present a poor appearance.

5.6 Wallboard

- 5.6.1 Surface defects.- Prior to painting, all joints, cracks, holes and other surface defects shall be repaired with patching plaster or spackling compound, filled out flush and smooth, and sanded.
- 5.6.2 Nailing depressions. Nailing depressions shall be filled with 3 coats of joint cement or putty, and each coating shall be allowed to dry before the succeeding coating or treatment is applied. Where necessary, the last coating shall be sanded with a 2/0 sandpaper so as to have a smooth finish flush with the face of the wallboard.
- 5.7 Plaster surfaces.- Plaster surfaces shall be dry, clean and free from grit, loose paint, loose plaster, and surface irregularities before paint is applied. When oil base or oleo-resin base paint is applied, the instrument-measured moisture shall not exceed %.
- 5.8 Asbestos-cement-board and hardboard (Masonite) surfaces.— Asbestos-cement-board and hardboard (Masonite) surfaces shall be dry and clean prior to application of the specified first-coat material. Oil, grease or rust stains shall be carefully removed by the use of suitable solvents, such as mineral spirits in accordance with TT-T-291. Wire brushing will not be permitted. After the first coating has become dry, and prior to application of finish coats, touch-up coats shall be applied to all suction spots.
- 5.9 Mastic-type surfaces. Mastic-type surfaces to be painted shall be thoroughly cleaned and all foreign matter shall be removed.
- 5.10 Fabric covering or exposed insulation. Fabric covering or exposed insulation on pipes, ducts, tanks and other equipment shall be given a coat of non-penetrating size to which subsequent paint coats will permanently adhere. The size shall be applied in such a manner as to completely seal the surface. A sufficient amount of fungicidal agent shall be added to the size and each finish coat of paint thereafter to render the fabric mildew-proof. The fungicidal agent shall be an approved type that will not adversely affect the color, texture or durability of the paint or size, such as phenyl mercuric acetate, phenyl mercuric oleate or phenyl mercuric succinate.
- 5.11 Obstruction marking. Structures determined to be hazards to the safe operation of aircraft shall be painted with an exterior aviation surface orange paint and an exterior white paint, specified in Table I, in a configuration shown in FAA publication, "Obstruction Marking and Lighting" and on FAA Drawing D-5480.

- 5.12 Combustible surfaces. Fire-retardant paints shall be applied to interior or exterior surfaces that are highly combustible and where appreciable amounts are used, such as low density fiberboard, untreated plywood, etc. Fire-retardant paints can be used on structural steel or other metal.
- 5.13 Glazed surfaces. Glazed surfaces may be achieved by the use of epoxy or polyester type liquid glaze coating systems. Job-applied liquid glaze based on polyester resin with curing agent may be used over masonry or concrete. Job-applied liquid glaze based on epoxy resin with curing agent may be used on masonry, concrete and Portland cement plastic. Liquid glazes may be used on walls and ceilings, in hallways, showers, corridors and drying rooms, dishwashing rooms and sculleries, and insimilar very wet areas. When liquid glazes are used on ceilings, walls or wainscots, Portland cement plastic will be omitted from masonry and concrete.
- 5.14 Interior ferrous surfaces of water storage tanks.— Interior ferrous surfaces of water storage tanks shall be blast-cleaned to commercial metal grade in accordance with Steel Structures Painting Council Specification SSPC-SP-6 (Figure B SA 1 of SSPC-VIS-I-63T, Pictorial Surface Preparation Standards for Painting Steel Structures).

CHAPTER 6. PAINT APPLICATION

- 6.1 General. Paint shall be applied uniformly in the proper consistency by skilled painters only, using appropriate methods of application as approved by the Government representative. To prevent formation of skins and loss of volatile solvent, paint containers shall be covered when delays in application are encountered. . Adjacent work and materials shall be protected by ample dry cloths or other suitable coverings. Paint shall be thoroughly mixed immediately before use and at frequent intervals during application. The meeting line between colors shall be straight and sharply defined, with no blending, running or gaps. All coats of paint shall be free from sags, wrinkles, runs, holidays, smears, dirt and colors other than those specified. Paint drops and oversprays can be removed before dry. At times, particularly over windows and glazed surfaces, it is more economical to remove oversprays and drips with a sharp edged tool such as a razor blade after they have dried. Of course. when this procedure would cause damage to the substrate. it cannot be used. The hiding shall be complete and each coat shall be so applied as to produce a film of uniform thickness. Special attention shall be given to insure that edges, corners, crevices, welds and rivets receive a film thickness equivalent to that of adjacent painted surfaces. Respirators shall be worn by persons engaged or assisting in spray painting. Metal or wood surfaces adjacent to surfaces to receive water-thinned paints shall be primed and/or touched up prior to application of water-thinned paints.
- 6.2 Paint properties, storage, mixing and thinning.— At time of application, paint shall show no signs of deterioration, and shall provide a satisfactory film and a smooth, even surface. Emulsion paints shall be protected from exposure to cold weather by storing in shelters so as to prevent freezing of the paint. Paint shall be thoroughly stirred, strained and kept at a uniform consistency during application. Paints of different manufacturers or different type shall not be mixed together. Where approved by the Contracting Officer as necessary to suit conditions of surface, temperature, weather, and method of application, the packaged paint may be thinned immediately prior to application in accordance with the manufacturer's directions, but not in excess of 1 pint of suitable thinner per gallon. Paint shall not be thinned unless approval for thinning is given by the Contracting Officer. The use of thinning for any reason shall not relieve the contractor from obtaining complete hiding.
- 6.3 Atmospheric conditions.— Paint other than water-thinned coatings shall be applied only to surfaces that are completely free from surface moisture as determined by sight or tough or within the moisture limits specified when determined by a moisture meter. In no case shall paint be applied to surfaces upon which there is visible frost or ice. While painting is being done, the temperature of the surface to be painted and of the atmosphere in contact therewith shall be maintained at a minimum of 45°F. and a maximum of 95°F. During periods of inclement weather, painting may be continued by inclosing the surfaces with temporary shelters and applying artificial heat, provided the temperature requirements prescribed above are maintained throughout the drying period.

- 6.4 Time between surface preparation and painting. Surfaces that have been cleaned, pretreated, and/or otherwise prepared for painting shall be given a coat of the specified first-coat material as soon as practicable after such preparation has been completed but in any event prior to any deterioration of the prepared surface.
- 6.4.1 Coating progress.— Sufficient time shall elapse between successive coatings to permit proper drying. This period shall be modified as necessary to suit adverse weather conditions. Oil base or oleo-resinous type paints shall be considered dry for recoating when it feels firm, does not deform or feel sticky under moderate pressure of the thumb, and the application of another coat of paint does not cause lifting or loss of adhesion of the undercoat.
- 6.4.2 Color of undercoat. The color of the undercoat shall vary sufficienting from the color of the next coat to enable the visual determination of complete coverage.

6.5 Method of application

- 6.5.1 Metal. Vinyl type wash coat may be applied by brush, spray or swab. Other first coats shall be applied by brush or spray and subsequent coats may be applied by brush, roller or spray. First coats on items that have been shopprimed or field-primed may be applied by brush, roller or spray.
- 6.5.2 Concrete and masonry surfaces. Filler coat shall be applied by brush. Surfaces shall be dampened when emulsion fill coat or cementitious paint is applied as a first coat. Other first coats shall be applied by brush or spray. Subsequent coats may be applied by brush, roller, or spray.
- 6.5.3 Other surfaces. First coats shall be applied by brush or spray, and subsequent coats may be applied by brush, roller, or spray.
- 6.5.4 Application of interior emulsion paint. First coats of interior emulsion paint shall be at such a rate (between 300 and 500 square feet per gallon) as will affect sealing of the surface. The second coat of interior emulsion paint shall be applied at a maximum spreading rate of 450 square feet per gallon. Emulsion paint to be sprayed shall be applied at approximately the same rate as that for brushing or rolling.
- 6.5.5 Special requirements. Rollers for applying enamels shall have a short nap. Brushes used for emulsion paint shall be soaked in water for a period of 15 minutes prior to brushing.
- 6.5.6 Thinning of paint. If thinning of paint is necessary for adequate spray consistency, not more than the manufacturer's stated recommendation for additional thinner shall be used. (See 6.2)

- 6.5.7 Cement-emulsion paint filler. Scrub the filler into the surface with a stiff bristle brush having Tampico or Palmyra bristles not longer than 22 inches. The dry coating shall be essentially uniform and free from pinholes, pores, cracks, or other voids. The material shall not be applied over caulking compound.
- 6.5.8 Exterior emulsion paint.— At least 24 hours shall elapse before applying exterior emulsion paint over cement emulsion paint filler coat. When the ambient exterior temperature is in excess of 85°F., cement emulsion paint surfaces shall be lightly dampened with a fog spray of potable water immediately prior to application of the subsequent emulsion paint coat.
- 6.5.9 Vinyl type wash coat. The vinyl type wash coat shall be applied at an appropriate rate to give a dry film thickness of 0.3 mils minimum and 0.5 mils maximum. The wash coat shall be permitted to dry for at least 30 minutes.
- 6.5.10 Natural wood finishes. Surfaces shall be prepared as hereinafter specified. The surface shall be adequately protected and dust-free before and after each application of material specified below.
- 6.5.11 Interior wood floors.— Interior wood floors shall be finished with a varnish-type surface sealer and then waxed. The sealer shall be applied in accordance with the manufacturer's recommendations and in such manner as to provide thorough penetration and sealing. A period of 24 hours shall be allowed between coats and each coat shall be power-buffed with steel wool. The last coat of sealer shall be allowed to dry for a period of seven days or more before the specified coat of wax is applied. Each varnish coat shall be lightly sanded prior to application of subsequent coat.
- 6.5.12 Interior wood surfaces other than floors.— These type surfaces shall receive coats of varnish as specified. The coats shall be lightly sanded between coats. The last coat shall be rubbed with FFF pumice stone and water followed by a rubbing with light mineral oil to an approved smooth satin finish.
- 6.5.13 Liquid glaze coating system. The liquid glaze coatings shall be applied in strict accordance with the manufacturer's printed directions for surface preparation, mixing, application, coverage and curing.
- 6.5.14 Cementitious paint. The first coat of paint shall be applied with a stiff fiber bristle brush. Before applying the paint, the surface must be thoroughly wet to control surface suction and to provide a reserve of moisture to aid in the proper curing (hardening) of the paint. Cementitious paints are made ready for use by thoroughly mixing the paint powder with water in the proper proportions as recommended by the manufacturer. The mixed paint shall have the consistency of rich cream except that a slightly thinner consistency is recommended for the second coat. The paint shall be applied in two coats of the same color and not less than 24 hours shall be allowed between coats. (See paragraph 5.2 and notes 1 and 2.)
- 6.5.15 Clean-up. Upon completion of painting, the painting contractor shall remove all paint spots from floors, glass and other surfaces, all rubbish, discarded materials, surplus materials, scaffolds, etc., caused by his work and leave the area clean and orderly.

CHAPTER 7. INSPECTION

- 7.1 General. No paint shall be used until inspected and approved by the Government representative. Paint shall not be applied to surface until such surfaces are approved by the Government representative. Additional coats of paint shall not be applied unless they are likewise inspected and approved. The contractor shall keep the Government representative fully informed as to his proposed painting schedule to permit adequate time for inspection of materials and surface conditions. Paints shall be applied to produce an adequate dry film thickness as specified in the tables.
- 7.2 Unsound surfaces. The painting contractor shall inform the Government representative of any unsound conditions found on existing jobs, such as rotting, peeling, blistering, alligatoring, checking, cracking, curling or other paint failure, and the cause of said condition shall be determined and corrected before painting.
- 7.3 Instruments for use by field personnel. -
- 7.3.1 Moisture meter. Moisture in substrates shall be determined by the Weston Midget Moisture Meter. This meter measures the electrical resistance across a double set of contacts which are penetrating the wood. The one-fourth (1/4) inch needle contacts are pressed or driven full length into the material to be tested. A piece of wood or plastic will vary in moisture content. The reading obtained by the Weston Moisture Meter will be an average of a layer of the wood and not a surface moisture reading. However, if the surface of the material being tested is extremely wet, as after a rain, the meter reading will be affected. Good contact between the needle surface and the material being tested is important. If the needles are loose in the holes, a resistance to the flow of current is set up between the needle surface and the adjacent material. Poor needle contact will produce a lower than actual moisture reading.
- 7.3.1.1 Moisture Meter Accuracy. The Weston Moisture Meter reads directly in percent moisture. The dial reading will not be corrected for all woods or all wood surface temperatures. For every temperature change of approximately 20° above or below 80°F., one percent must be added or subtracted to obtain a more accurate reading.
- 7.3.2 Moisture Measurement Wood. The desired moisture content of the wood to be painted varies from 5 to 12 percent, depending on its use. In this range, the meter reading can vary ten percent or more from the true moisture content. For accurate results the conversion table provided with the meter should be used.

- 7.3.3 Moisture Measurement Plaster. Plaster should not be painted if its moisture content is above 8 percent. The Weston Moisture Meter is calibrated to indicate if the moisture content is above or below 6 percent. Old plaster should be tested before the cracks are repaired so the damage done by the needle contacts can be repaired at the same time. New plaster can be tested using flat electrodes in place of the needle contacts.
- 7.3.4 Thickness Gages .- Dry film thickness gages are available either as a self-contained pocket-size unit or a unit operated on 115-volt alternating current. The instruments are similar in operation and both are securate; however, the larger size and the requirement for a source of electrical current make the latter type inconvenient for field use. Also, if the alternating current gage is connected to a line having abnormal voltage fluctuations, the voltage must be stabilized by means of a constant-voltage transformer if accurate results are to be obtained. Several self-contained gages are available, covering various ranges with differing degrees of reported accuracy. Very good results have been obtained in measuring coatings on ferrous metals with the self-contained dry film thickness gage. This instrument is available in a variety of thickness ranges. It is lightweight, easy to use in hard-to-reach areas. It can be used in any location without the need for bringing in an outside source of electricity. It does not injure the coating in any way and its reliability is accepted by contractors. While these gages are available in several ranges, the O- to 20-mil instrument is best suited for checking most of the coatings used for FAA structures.

CHAPTER 8. STORAGE AND SAFETY

- 8.1 Storage. All tools and materials used by the painting contractor on the job shall be stored in a single, ventilated place, approved by the Government representative. Such storage place shall be kept neat and clean and all damage thereto, or to its surroundings shall be repaired. Any used rags, waste, empty containers, etc. must be removed from the area every night, and every precaution taken to avoid the danger of fire.
- 8.2 Safety. All precautions shall be taken to prevent the possibility of fire in areas being painted. There should be adequate ventilation for the removal of toxic fumes. Where ventilation is insufficient, face masks, and/or respirators supplied with clean air, should be used. Food should not be kept or eaten in any area exposed to dust from sandpapering or fumes from paint thinners. Paint with toxic ingredients shall not be used where consumption by humans or animals is a possibility. Adequate illumination should be provided to assure complete coverage and for the safety of painters.

CHAPTER 9. PAINT SYSTEMS

- 9.1 General. Surfaces listed in Tables II, III, IV and V, shall receive the surface preparation, paints and number of coats prescribed. Methods of surface preparation, cleaning methods and pretreatment of surfaces prior to painting shall be accomplished in accordance with the detailed requirements as set forth in Chapter 5 for each particular surface.
- 9.2 Recommended paint systems. The recommended paint systems developed are as follows:

Paint Systems for Steel Structures in Order of Corrosiveness Take	ble II	Page 18
Paint Systems for Building Interiors Ta	able III	Page 19 to 21
Paint Systems for Building Exteriors Tai	ble IV	Pages 22 to 23
Paint Systems for Miscellaneous Structures and Purposes Ta	able V	Page 24

- 9.3 How to use the paint system tables.— This Standard can readily be used to extract painting data by excerptions of desired sentences and/or paragraphs, or by calling for a paint system in accordance with Tables II to V. To select and specify a paint system, the following method is recommended:
 - 1. Select the table in accordance with the type of surface which must be painted and the exposure/environmental service condition.
 - 2. Select the system number, bearing in mind the probable age of the structure vs. desirable age, cost to paint vs. corrosive atmospheric conditions and the effect that paint deterioration will have on the structural strength of the structure.
 - 3. The following note can be used on the customary place on the drawing or specification: "All ferrous material shall be painted in accordance with Paint Systems ST-3 of Paint Standard FAA-STD-003."

TABLE II: PAINT SYSTEMS FOR STEEL STRUCTURES

System Number	en er Surface	Surface Preparation and Pretreatment	Primer	Intermediate Coat	Finish Coat
ST-1	Subject to atmospheric exposure	As previously specified (See 5.4)	TT-P-86, Type II, or TT-P-615, Type II or TT-P-645	Exterior oil paint	Exterior oil paint
ST-2	Subject to high humidi- ty, condensation or oc- casional fresh water immersion	As previously specified (See 5.4)	TT-P-86, Type III or IV, or TT-P-615, Type III or IV	r TT-P-86, Type III or IV, or TT-P-615, Type III or IV	MIL-P-52324
で 数 18	Subject to fresh water immersion or spray, or atmospheres around highly industrial cities	Near-white metal blast cleaning (See 5.4)	MIL-P-15930 or MIL-P-15929	Vinyl Alkyd Paint, white or gray	Vinyl Alkyd Paint, white or gray
ST-4	Subject to salt water spray or immersion	Near-white metal blast cleaning (See 5.4)	MIL-P-15930 or MIL-P-15929	Vinyl Alkyd Paint, white or gray	Vinyl Alkyd Paint, white or gray
Notes	System ST-1 and ST-2 System ST-3,	Systems shall be appand the thickness at mil minimum shall be This vinyl system shanes of 5.0 mils and be t.5 mils. One and or	Systems shall be applied to an average dry film thickness of 5.0 mils and the thickness at any point shall be not less than 4.5 mils. One mil minimum shall be built up with the primer. This vinyl system shall be spray applied to an average dry film thickness of 5.0 mils and the thickness at any point shall be not less than 4.5 mils. One and one-half mils minimum shall be built up with the primer.	film thickness to less than 4.5 mer. o an average dry point shall be rihall be uilt up	of 5.0 mils mils. One film thick- not less than p with the pri

System ST-4.-

This vinyl system shall be spray applied to an average dry film thickness of 7.5 mils and the thickness at any point shall be not less than 6 mils. Three and one-half mils minimum shall be built up with the primer.

TABLE III: PAINT SYSTEMS FOR BUILDING INTERIORS

System Number	Surface	Surface Preparation and Pretreatment	Primer Cost	Intermediate Coat	Finish Cost
BI-1	Interior concrete, masonry units, concrete, structural clay tile, gypsum board, asbestos cement board, composition fiberboard, unless otherwise specified	As previously spect- fied for each type of surface (See 5.2)	TT-F-29 or TT-P-30	1 1	TT-P-29 or TT-P-30
BI-2	Interior plaster, unless otherwise specified	As previously spect- fied (See 5.7)	TT-P-56 or TT-P-29	1 1	TT-P-30 or TT-P-29
BI-3	Interior concrete masonry unit walls in food prepar- ation, food-serving, shower, latrine and laundry areas	Remove foreign matter, loose particles and efflorescence. Thor- oughly dampen the wall (See 5.2)	Cement emulaion filler	TT-P-29 or TT-P-30	One coat IT- E-543 and one coat IT-E-506 or IT-E-508
† H	Interior walls and ceilings in food preparation, food serving, shower, latrine and laundry areas, except concrete masonry units and plaster	As previously speci- fied for each surface (See 6.5.4 and other specific surface reference)	111-P-29 or 111-P-56	TT-E-543 -	TT-E-508 or TT-E-506
BI-5	Interior gypsum board in food serving, latrine and laundry areas	As previously spect- fled for each surface (See 5.2)	TT-P-29	TT-E-543	TT-E-506 or TT-E-508
BI-6	Acoustical tile	Remove foreign matter (See 6.5.4)	TT-P-29	ı	TT-P-29
BI-7	Interior ferrous surfaces	As previously spect- fied (See 5.4)	TT-P-85 or TT-P-615 or TT-P-645	TT-F-30 TT-E-543 TT-E-543 Alumimum Paint	TT-P-30 TT-E-508 TT-E-506 Aluminum Paint

System BI-7 - Paint system shall be applied to a minimum dry film thickness of 3.5 mils. The primer shall have a dry film thickness of 1.0 mil minimum. Note

continued)
H
LABLE

System Number	Surface	Surface Preparation and Pretreatment	Primer	Intermediate Coat	Finish Cost
BI-8	Wood and metal (other than ferrous) interior trim, doors and windows, unless otherwise specified	As previously specified for each surface (See 5.3 for wood and 5.5 for metal)	TT-E-543	•	TT-E-508
BI-9	Interior wood and metal (other than ferrous) surfaces in food preparation, food serving, shower, latrine and laundry spaces	As previously speci- fled for each surface (See 5.3 for wood and 5.4 for metal)	TT-E-543	•	TT-E-506
BI-10	Interior hardboard	As previously specified (See 5.8)	TT-8-543	1	TT-E-508
BI-11	Wall bases	As previously speci- fied for each type of surface (See Chapter 5 for ap- plicable surface)	TT-E-489 Class A	1	TT-E-489 Class A
BI-12	Interior wood surfaces (other than floors), unless otherwise specified	Remove foreign matter, sandpaper as required (See 5.3.3)	TT-E-487	•	TT-P-30 TT-E-508 TT-E-506
BI-13	Interior wood floors to be painted	Solvent cleaning, scraping, sealing, and sandpapering (See 5.3.4)	TT-E-487	1	TT-E-487
BI-14	Interior wood surfaces to receive stain or natural finish	Clean and sandpaper as required. Stain with TT-S-711 for shade as necessary. Fill and seal as required (See 5.3.2)	IT-V-121	171-V−121	TT-V-121

TABLE III (continued)

System Number	Surface	Surface Preparation and Pretreatment	Primer Cost	Intermediate Coat	Finish Cost
BI-15	Interior wood floors to receive stain or natural finish	Clean, sandpaper, and fill as required (See 5.3.3)	TT-S-176	TT-S-176	P-W-158, Type II or P-W-155
BI-16	BI-16 Interior concrete floors	Allow to age 90 days, minimum (See 5.2)	TT-P-91	•	Tr-P-91
BI-17	Mastic type surfaces, concrete and plaster, in refrigerated spaces	As previously specified for each type of surface (See 5.9).	Exterior emulsion paint	1	Exterior emulsion paint

TABLE IV: PAINT SYSTEMS FOR BUILDING EXTERIORS

	· AT GROWT	TUTUL CHARGE CONTROL			
System Number	Surface	Surface Preparation and Pretreatment	Primer Coat	Intermediate Coat	Finish Cost
BE-1	Exterior poured concrete and stucco surfaces	Remove foreign matter, effloremence and loose particles, and roughen glazed surfaces (See 5.2)	Exterior emulsion paint	•	Exterior emulsion paint
BE-2	Exterior concrete masonry units	Remove foreign matter, loose particles, ef- florescence from units (See 5.2)	TT-P-0035	•	TT-P-0035
BE-3	Exterior structural clay	Remove foreign matter, chalk (See 5.2)	Exterior emul- sion paint	mul	Exterior emulsion paint
BET	Exterior wood surfaces not otherwise specified	Solvent cleaning, scraping, and sandpapering (See 5.3.1)	III-P-25 III-P-25	Ext. oil paint Ext. emulsion paint	Ext. oil paint Ext. emulsion paint
BE-5	Exterior wood surfaces as follows: steps, platforms, floors of open porches	Solvent cleaning, scraping, sealing and sandpapering (See 5.3.1)	TT-E-487	•	TT-8-487
BE-6	Exterior hardboard surfaces	As previously specified for wood surfaces (See 5.3.1)	TT-P-25	•	Ext. emulsion paint or Ext. oil paint
BE-7	Exterior asbestos cement surfaces	Clean, remove loose stains and glazed areas (See 5.8)	1T-P-25	Ext. esulsion paint or Ext. oil paint	Ext. emulsion paint or Ext. oil paint

continued)
) A
ABLE

System	Surface	Surface Preparation and Pretreatment	Primer Cost	Intermediate Cost	Finish
8-38	Exterior galvanized and zinc-copper surfaces	As previoualy specified (See 5.5)	TT-P-641, Type II MIL-P- 26915, Type Class A	1 I	Ext. oll paint TT-P- 641, Type II; Ext. oll paint; ML-P- 26915, Class A Type I
BE-9	Exterior aluminum and aluminum-alloy surfaces	As previously specified (See 5.5)	Tr-P-645 Tr-P-38	TT-E-489, Class A	TT-E-489, Class A TT-P-38
BE-10	Exterior copper surfaces	As previously spect- fled (See 5.5)	TT-P-645	4	TT-E-489, Class A
BE-11	Exposed exterior caulk-	Clean surface (See 5.5)	•	1	TT-P-38
Notes	System BE-1Total film thickness:	ess: 4.5 mils (Dry Film)	dry Film)		
	System BE-2For resistance to max. 100 MPH wind driven rains:	en rains: 6.0 mils min.	in.		
	System BE-3. Total film thickness:	less: 4.5 mils (Dry Film)	Ory Film)		
	System BE-4Total film thickness: Minimum at any one po	thickness: 4.5 mils any one point: 4.0 "			
	System BE-5. Total film thickness:	thickness: 3.5 mils any one point: 3.0 "			
	Systems BE-8(Total film thickness: BE-9(Minimum at any one po	thickness: 3.0 mils any one point: 2.5 "			

TABLE V: PAINT SYSTEMS FOR MISCELLANEOUS STRUCTURES AND PURPOSES

System	Surface	Surface Preparation and Pretreatment	Primer Coat	Intermediate Coat	Finish Cost
M-1	Steel Works (Ferrous)	Sandblast or pickle for new construction; for repainting, wash and remove oil and loose particles. Power tool clean bad areas. Touch up with wash coat primer. (See 5.4)	Vinyl alkyd	Vinyl alkyd	Vinyl alkyd
M-2	Plastic antenna shelters	Remove foreign matters (see Chapter 5)	TT-E-489, Class A	•	TT-E-489, Class A
M-3	Walkways to be rendered non-slip	As previously speci- fied for each surface (see Chapter 5)	MIL-M-5044	•	η17-M-7IM
ή-W	Interior ferrous surfaces of water storage tanks	As previously speci- fled (see 5.14)	MIL-E-15145	MIL-E-15145	MIL-E-15145
M-5	All Surfaces Requiring Fire Retardant Coatings (Includes Metallic and Non-Metallic Surfaces)	See Appropriate Para- graphs, Chapter 5	MII~C-46081	•	MIL-C-46081
Notes	System M-1 This system M-3 Slip-res of 4.5 m System M-4 This system M-4 This system the thic	System M-1 This system shall be applied to an average dry film thickness of 4.5 mils and thickness at any point shall be not less than 4 mils. System M-3 Slip-resistant coatings shall be brush-applied to an average dry film thickness of 4.5 mils and the thickness at any point shall be not less than 4 mils. System M-4 This system shall be applied to an average dry film thickness of 5 mils and the thickness at any point shall be not less than 4.5 mils.	to an average dry film thickness of 4.5 mils and be not less than 4 mils. be brush-applied to an average dry film thickness at any point shall be not less than 4 mils. to an average dry film thickness of 5 mils and tall be not less than 4.5 mils.	average dry find less than the hickness of 5 mils.	5 mils and the Im thickness mils.

TABLE VI: REFERENCE PUBLICATIONS

Federal Specifications	fications		
P-W-155	Wax, Floor, Water-Emilsion,	1T-P-53	Paint, Ready-Mixed, Outside, Medium Chrome Yellow
P-W-158	Silp-Mesistant Wax, General Purpose, Solvent type	TT-P-55	Paint, Polyvinyl Acetate Emilsion, Exterior
SS-C-192 SS-W-110	Cement, Portland Water-Repellent, Coloriess, Silicone		
TT-C-00550	Coating System, Glaze, Interior,	TT-P-56	Primer Coating (Primer-Sealer), Pigmented Oil, Plaster and Wallboard
TT-E-487 TT-E-489	Ensmel, Floor and Deck Ensmel, Alkyd, Gloss (for Exterior	TT-P-59 TT-P-61	Paint; Ready-Mixed, International Orange Paint, Exterior, Black, Ready-Mixed
TT-E-496 TT-E-506	Enamel; Heat-Resistant (400°F.). Black Enamel; Tints and White	TT-P-71 TT-P-81	Paint, Exterior, Chrome-Green vReady-Mixed Paint, Oil; Beady-Mixed, Exterior Medium Shades on Lead-Zinc Base
TT-E-508	Enamel; Interior, Semi-Gloss, Tints and White Enamel Undercost, Interior, Tints	TT-P-86 TT-P-91	Paint, Red-Lead-Base, Ready-Mixed Paint, Rubber-Base, for Concrete
TT-P-19 TT-P-25	and White Paint, Acrylic Emulsion, Exterior Primer, Paint, Exterior (Undercost	TT-P-97	Floors Paint, Styrene-Butadiene and Styrene- Acrylate, Solvent-Type (for Exterior
DC-a-lat	for Wood, Ready-Mixed, White and Tints) Paint, Latex Base, Interior, Flat	TT-P-102	Masonry/ Paint, Oil; Titanium-Lead-Zinc and Oil, Exterior, Ready-Mixed, White and
TT-P-30	H	TT-P-103	Light Tints Paint (Titanium-Zinc and Oil, Exterior Pune-Resistant, Ready-Mixed, White)
TT-P-31	Paint, Oil, Iron-Oxide, Ready- Mixed, Red and Brown	TT-P-320 TT-P-615	Pignent, Aluminum; Fowder and rester, for Paint Primer Costing; Basic Lead Silico
fr-P-0035	Paint, Cementitions, Powder, White and Color (For interior and exterior use.)	TT-P-641	Chromate, Ready-Mixed Primer, Paint: Zinc Dust-Zinc Oxide (for Galvanized Surfaces) Primer: Paint: Zinc-Chromate, Alkyd
TT-P-38	Paint, Aluminum, Ready-Mixed	C+0-4-11	type

TABLE VI (continued)

Federal Specifications	cations	
TT-8-176	Sealer, Surface, Varnish Type,	MIL-P-15936 Enamel, Exterior, Gray No. 27, Vinyl-Alkyd (Formula 122-27)
TT-8-708	•	MIL-P-16188 Enamel, Exterior, Gray No.17, Vinyl-Alkyd (Formula 122-17)
TT-8-711	Stain, Oil Type, Wood, Interior	
TT-T-291	Thinner; Paint, Volatile. Mineral Spirits (Petroleum Spirits)	MIL-P-16502 Engagel, Exterior, Gray No. 46, Vinyl-
TT-T-801	Turpentine, Gum Spirits, Stain Dis- tilled Sulfate Woods, and	Alkyd (Formula 122-46) MIL-P-16738 Enamel, Exterior, White, Vinyl-Alkyd (Formula 122-82)
TT-V-119	Ustinctly Distilled Varnish, Spar, Phenolic-Resin	MIL-P-26915 Primer, Coating, Zinc Dust Pigmented
TT-V-121	Varnish, Spar, water-kesisting	MIL-C-46081 Coating Compound, Thermal Insulating (Intumescent) MIL-P-52324 Paint, Alkyd, Oil, Exterior, Tints
Military Specifications	fications	
M11-M-5044	Walkway, Coating and Matting,	
MIL-8-12935	Nombrig, Arrera v Sealer, Surface, Knot	Fed. Std. 141 Paint, Varnish, Lacquer, and Ne- lated Materials: Methods of
MII-P-14504	Primer, Coating, Pretreatment, One-Package Wash Primer (For	Inspection, Sempling and Testing Fed. Std. 595 Colors, Standard
MI~E-15145	Enswel, Zinc Dust Pigment, Fresh Water Tank Protective, Formula	Other Publications
٠	No. 102	FAA Obstruction Marking and Lighting
MIL-P-15328	Primer Pretreatment (Formula 117 for Metals)	Steel Structures Painting Council Specification SSD-SP-3 Performal Surface Presention
MII-P-15929	Formula 119 Red Lead Vinyl Primer	
MIL-P-15930	Formula 120 Zinc Chromate Vinyl Drimer	Structures
MIL-P-15932	Enamel, Outside, Gloss Black, Vinyl-Alkyd (Formula 122-1)	55K-5F-0 Fictorial Surface Freparation Standards for Painting Steel
MIL-P-15933	Enamel, Outside, Dull Black, Vinyl-Alkyd (Formula 122-3)	
MIL-P-15934	Enamel, Exterior, Gray, No.7, vinvl-Alkyd (Formula 122-7)	
MIL-P-15935	Enamel, Outside, Gray, Vinly-Alkyd (Formula 122-11)	

PAA-STD-003

INDEX

A	Pages
Accoustical tile Acrylic emulsion paint Acrylic mixing liquid Aluminum-alloy (non-ferrous) surfaces Aluminum paint Aluminum (non-ferrous) surfaces Antenna shelters, plastic Anti-mildew additive Application, paint Areas exposed to industrial fumes Asbestos cement-board surfaces Atmospheric conditions	19 3 5,23 8,23 24 4 11-13 3 9,19,22
B	
Basic lead silica chromate primer	6 8 4 12
Caulking compound, exposed, exterior surfaces Ceilings, interior Cement-board, asbestos Cement emulsion paint filler Cement, joint Cement, white, Portland cement aggregate Cementitious Paint Clay tile, structural, surfaces Clean-up Cleaning and preparation of surfaces Asbestos cement-board surfaces Combustible surfaces Concrete and masonry surfaces Fabric covering Fabricated and assembled items Ferrous surfaces Glazed surfaces Glazed surfaces Hardboard (Masonite) surfaces Mastic type surfaces Mon-ferrous metal surfaces Plaster surfaces Wall board Wood surfaces Wood floors	23 19 19 6,13 4 5 13 6 9 10 6 9 8 8 10 9 9 8 9 9 7 7

C		P	ges
d			2 10 19 6,12,19,21,22
D			
• • • • • • •			1
E			
rior			6,12,22 3 8,9,10,11,13 6,13,22
F			
terior	• • • •	• • • •	8,18,24 8,19
ject to: ure sion or immersion ion crylate ion s, interior and od mcrete. as, painting of painting of	exterior		18 18 18 19 3 5-12 4-10-24 20 21
	rete surfaces crete s	-slip d n-ferrous) D F cled items terior terior interior water storage taken interior water sto	rete surfaces rete surfaces reterior terior terior terior terior interior water storage tanks

9003329 0005146 287 🖿

G	Pages
Galvanized (non-ferrous) surfaces	10
The state of the s	
Hardboard surfaces	9,20,22
Inspection	14
Insulation - see fabric covering Instruments for use by field personnel Interior concrete surfaces	14 19
interior Interior emulsion (latex) paint Interior painting Interior walls and ceilings, painting of Interior wood floors - see Wood floors, interior Interior wood surfaces - see Wood surfaces, interior	4 7,11,12,13,14,15 19
J	
Joint cement	4
ĸ	
Knot sealer	7
Ľ	
Latrine areas, painting of	19 19 4,13 3
M	
Masonry surfaces	0-9,12,10,20,20

M L	nges .
Mixing liquids, acrylic and polyvinyl acetate Moisture content, plaster Moisture measurement, wood Moisture meter Moisture meter accurancy Moisture on surfaces	7 14 14 14
"	
Natural wood finish Nonferrous metal surfaces: Aluminum Aluminum alloy Copper Zinc-copper alloy Zinc-coated (galvanized) Non-slip coating compound	23 23 23 23
•	
Obstruction marking	9
Paints	3- 5
Paint: Application Definitions Mixing Properties Requirements Storage Terminology Thinning Pictorial surface preparation standards for painting	11
Steel structures Plaster, moisture content Plaster surfaces Platforms, exterior, wood Poured concrete surfaces Power tool cleaning Progress, coating Purpose Publications List	8,10 15 9,19,21 22 6,12,22 8 12 1 25,26

■ 9003329 0005148 OST

R	Pages
Recoating of paints	12 4 1 12
. •	- 4
Safety measures Sand blasting. Scope Shower areas, painting of Silicone, water-repellent liquid Stain, exterior finish Steel works Steps, exterior, wood Storage of paint Storage tanks, water Stucco surfaces Styrene-acrylate fill coat Styrene-acrylate paint Specifications List	22 3 3
Ť	
Tape, reinforcement Terminology, paint Testing Thickness gage Thinning of paint Time between surface preparation and painting Trim, interior	15 12
υ	14
Unsound surfaces	⇔ ⊤
Vinyl alkyd type paint	5 4 4,13

W	Pages
Walkways, non-slip Wall bases Wall board Walls, interior Wash coat, vinyl type Water proofness Water-repellency Water repellent liquid, silicone Water storage tanks Wax, floor Wood finishes, natural Wood floors, interior Wood, moisture content Wood surfaces Wood treatment	. 20 . 7 . 19 . 4,13 . 6 . 6 . 6 . 10,24 . 4 . 13 . 13 . 7
Zinc-coated (non-ferrous) surfaces (galvanized) . Zinc-copper alloy (non-ferrous) surfaces Zinc-dust-containing paint	8,20

